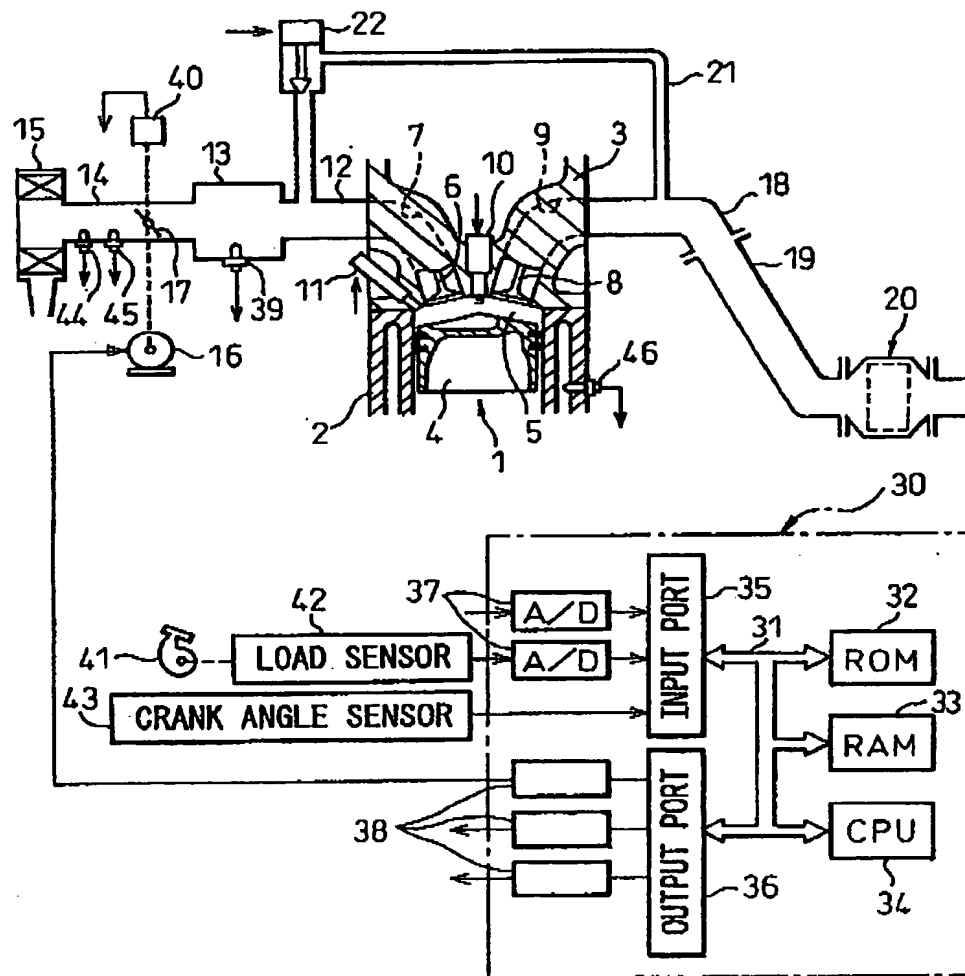


Fig. 1



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Fig.2A

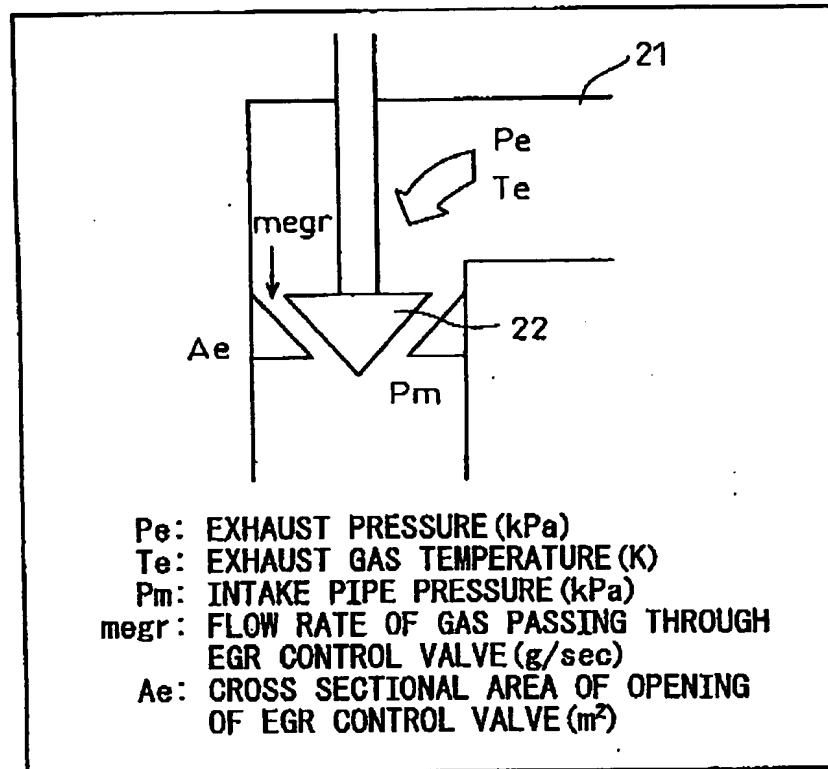
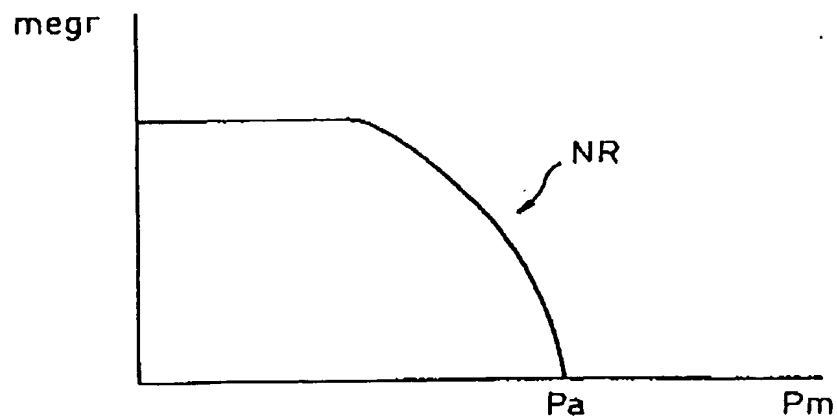
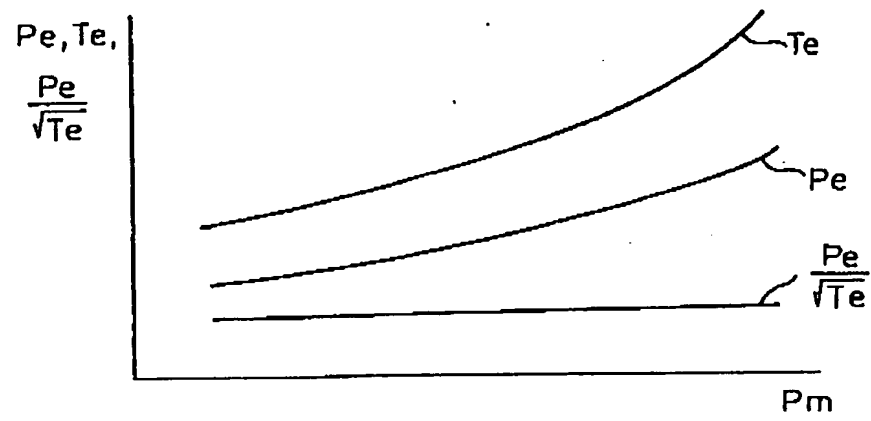


Fig.2B



$\frac{3}{21}$

Fig.3



$\frac{4}{21}$

Fig.4A

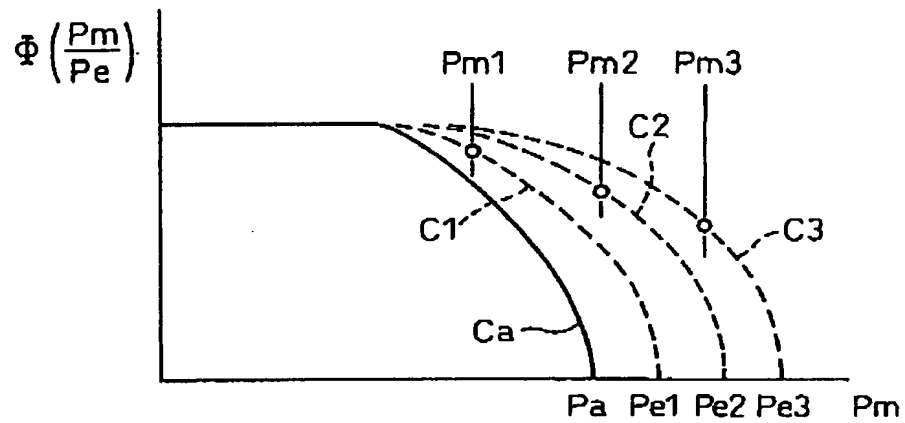
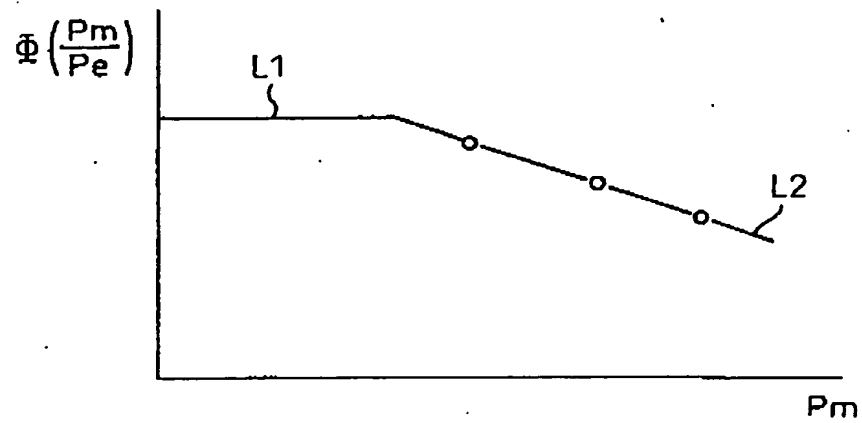
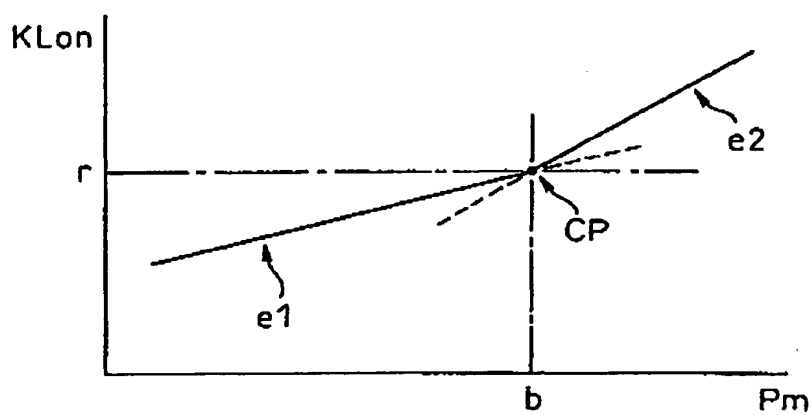


Fig.4B



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Fig.5



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Fig.6A

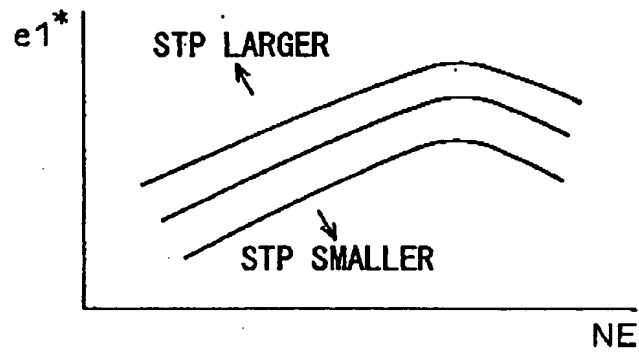


Fig.6B

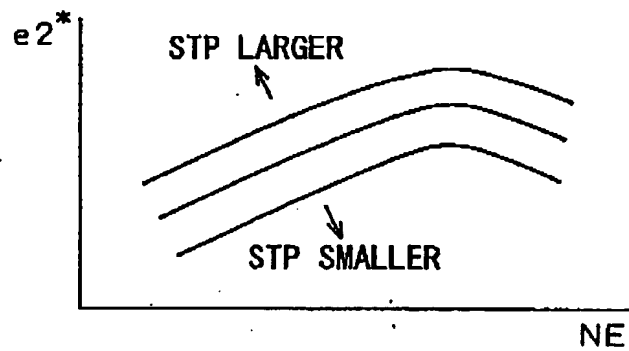


Fig.6C

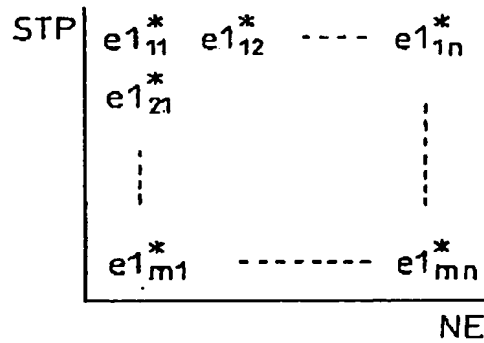
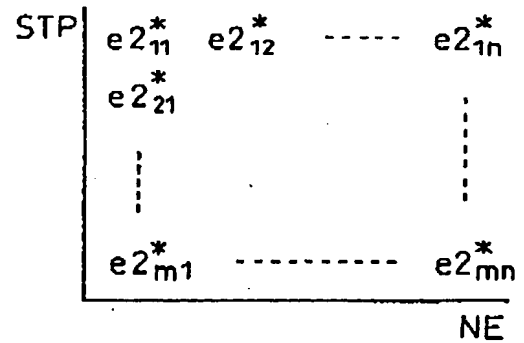


Fig.6D



$\frac{7}{21}$

Fig.7

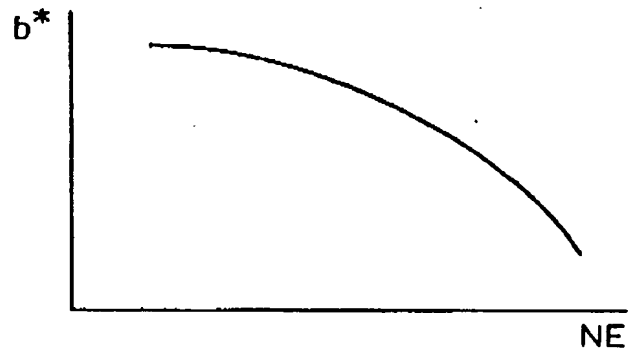


Fig.8A

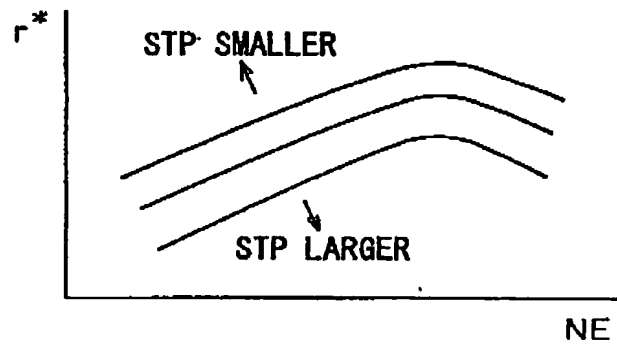
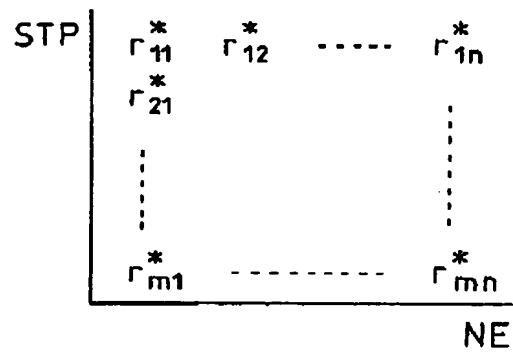


Fig.8B



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Fig.9

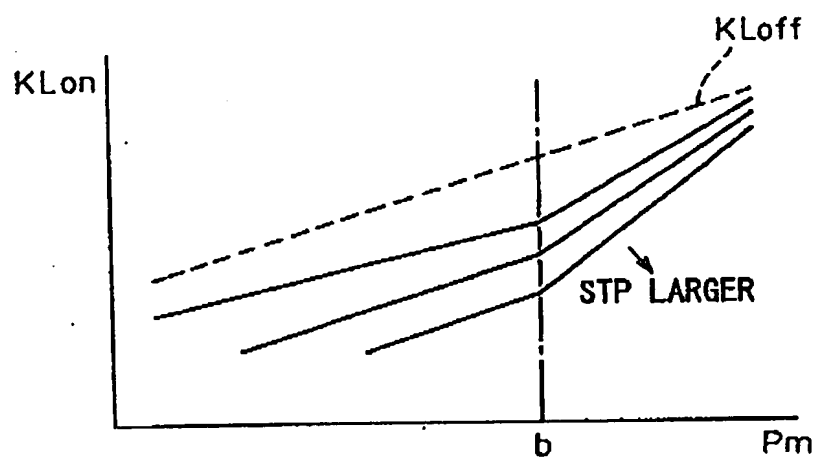
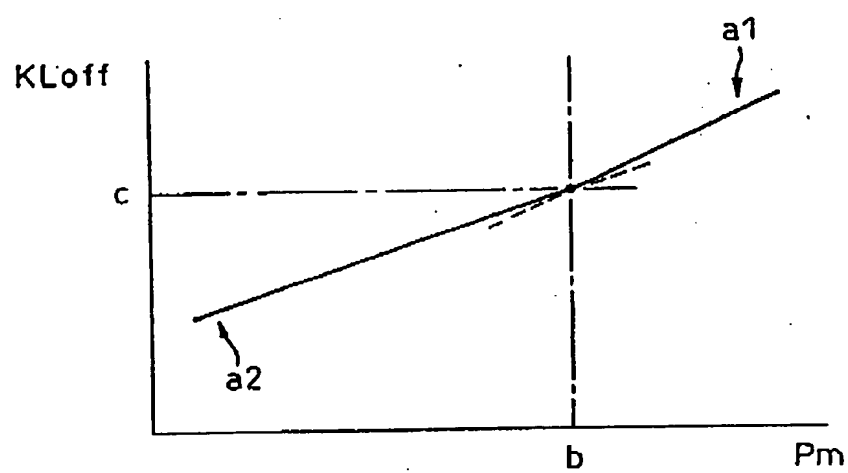


Fig.10



$\frac{9}{21}$

Fig.11A

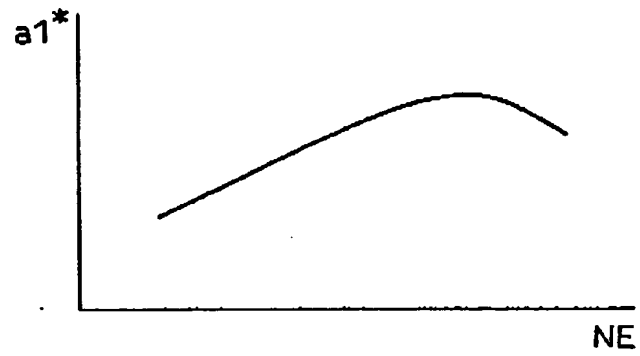


Fig.11B

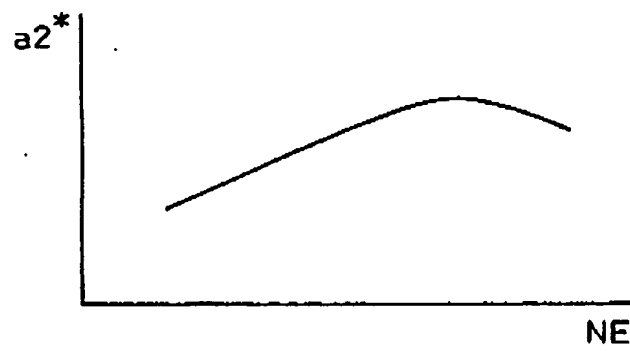
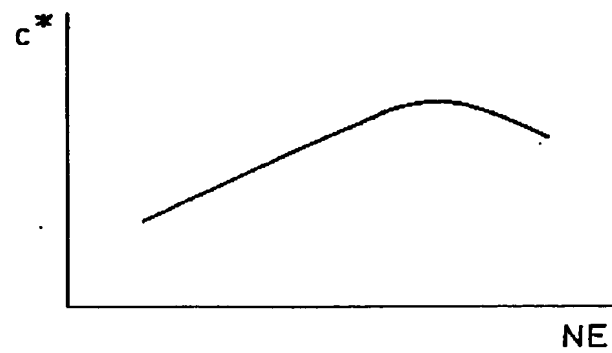
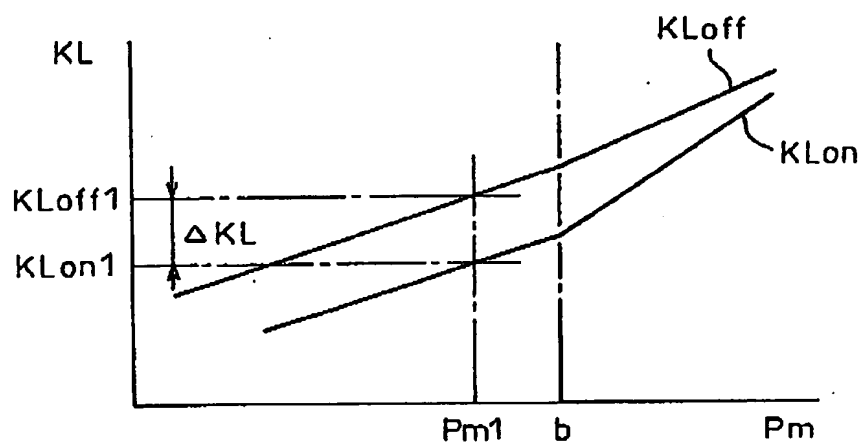


Fig.12



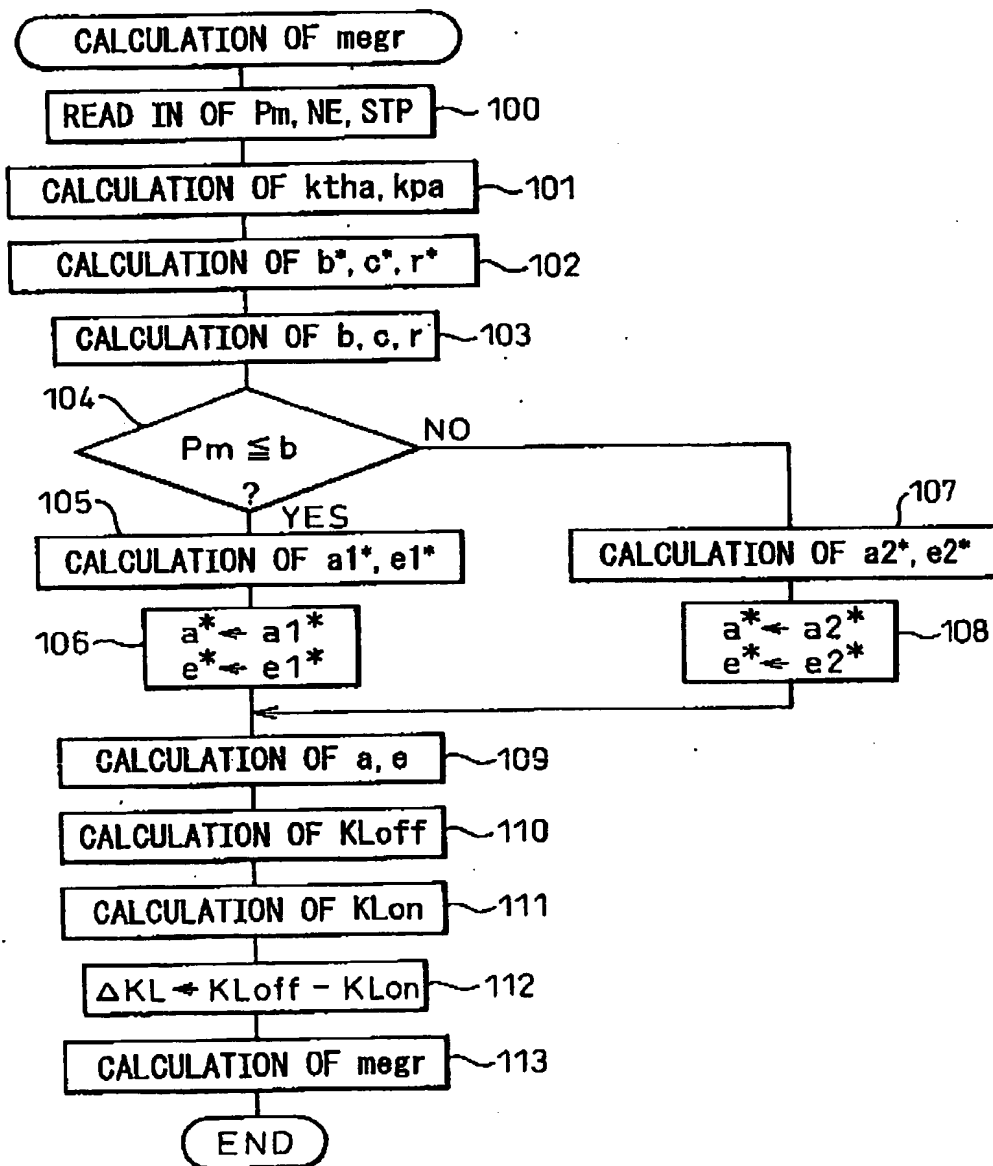
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Fig.13



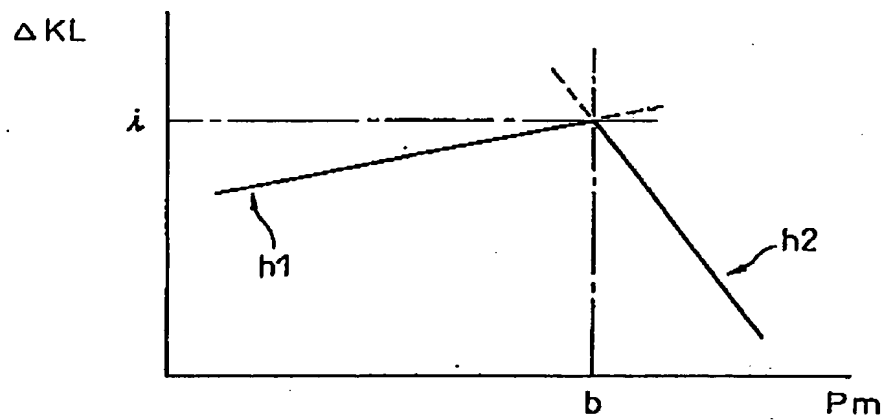
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Fig.14



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Fig.15



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Fig.16A

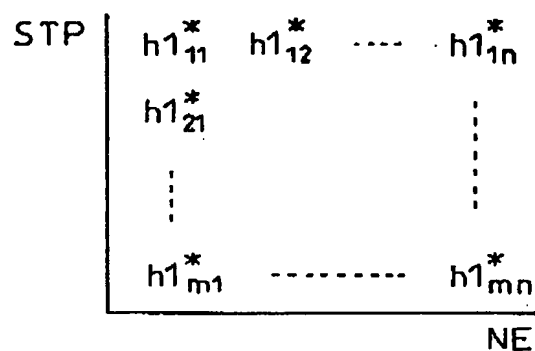


Fig.16B

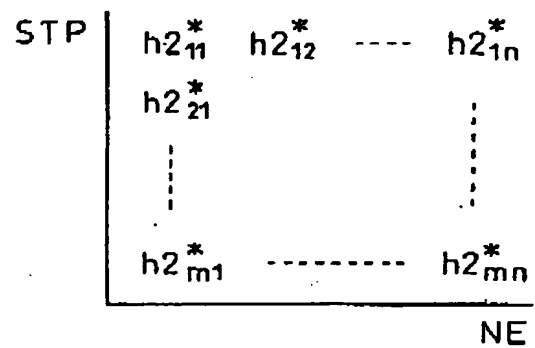
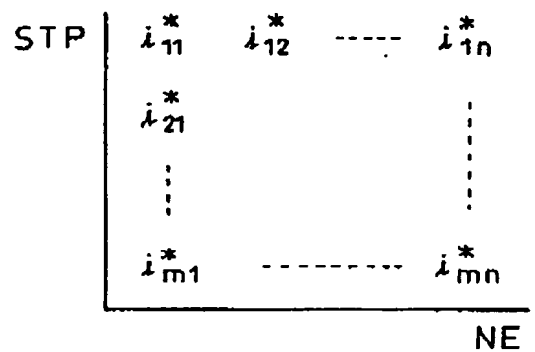
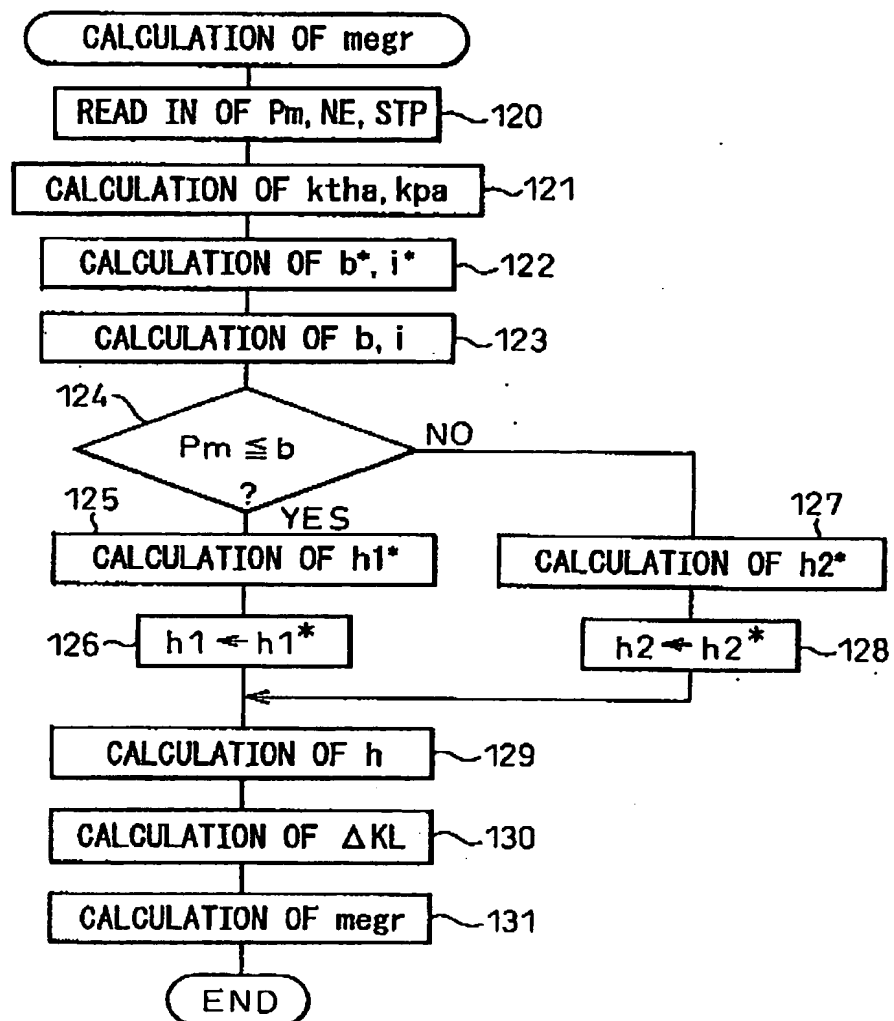


Fig.16C



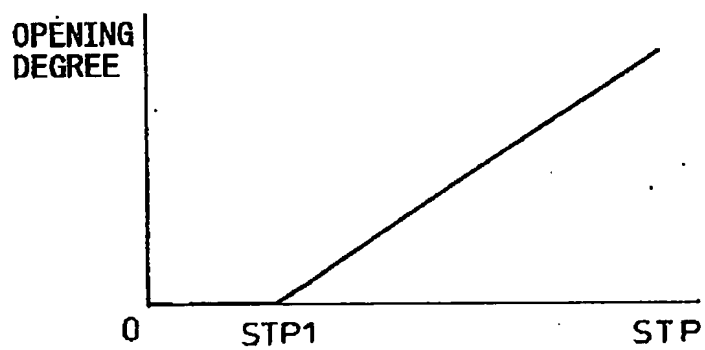
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Fig.17



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Fig.18



$\frac{16}{21}$

Fig.19A

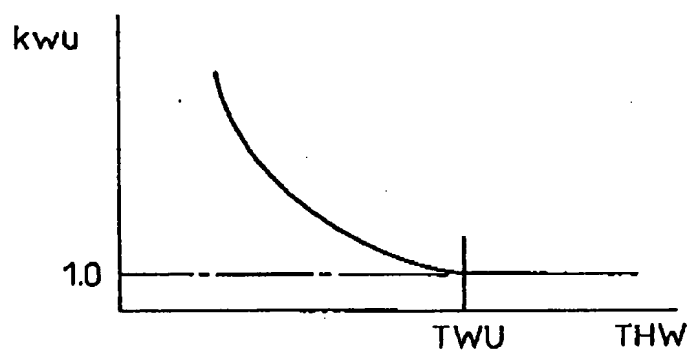


Fig.19B

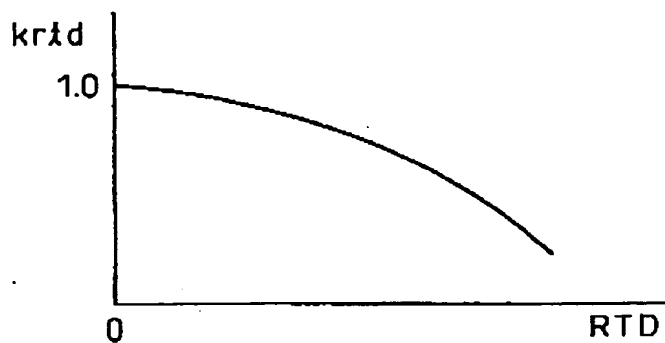
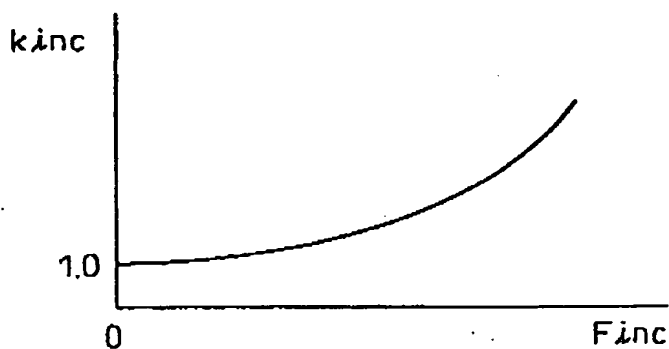
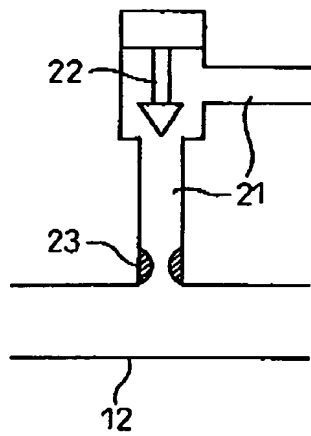


Fig.19C



$\frac{17}{21}$

Fig. 20



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Fig.21A

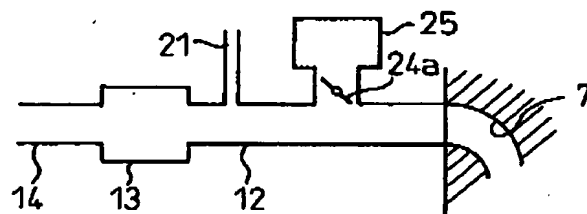


Fig.21B

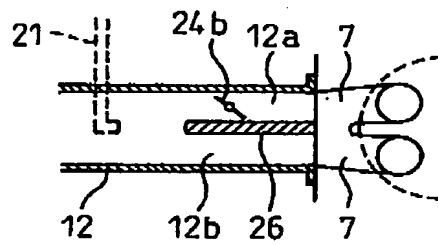
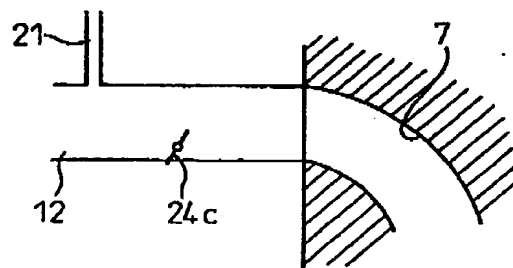


Fig.21C



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Fig.22A

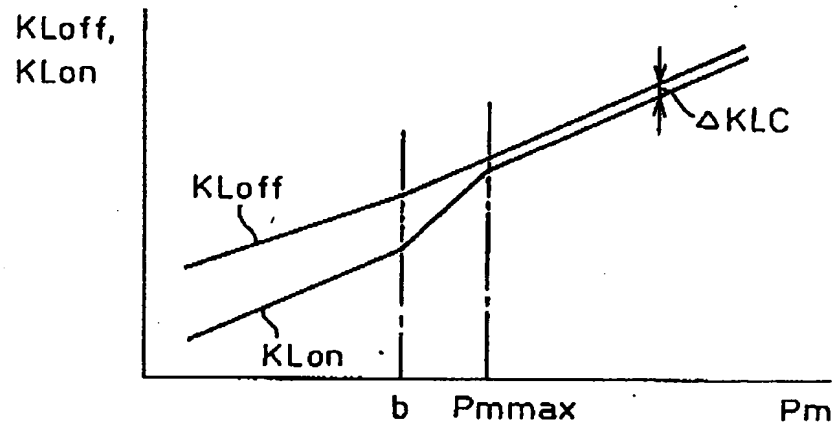
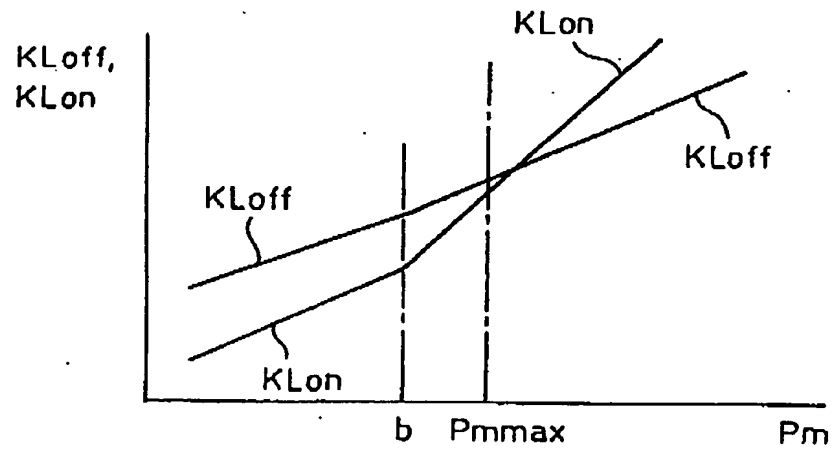
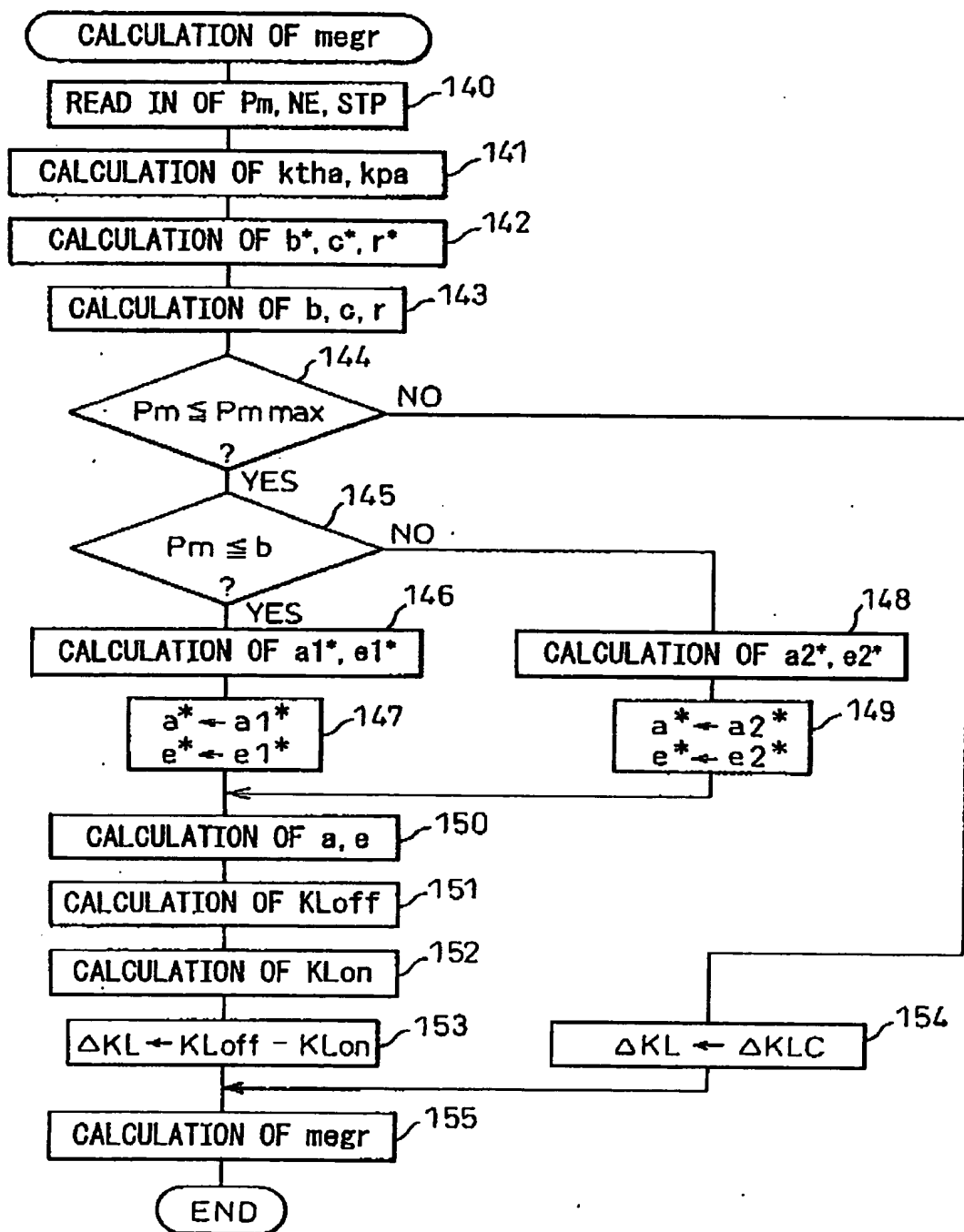


Fig.22B



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Fig.23



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LIST OF REFERENCE NUMERALS

- 1 ... Engine body
- 12 ... Intake branch
- 17 ... Throttle valve
- 5 18 ... Exhaust manifold
- 21 ... EGR supply pipe
- 22 ... EGR control valve